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File No. (ID#1) ZA 9109295

(ID#2) _____

Site Address 56th Ave W + 160th St. SW

Date Copied 7/25/01 By Chris

- ☑ **Title page with the following information:**
  - o *Company (Author) name*
  - o *Report date*
  - ☑ *Project Name*
  - ☑ *Company's job number*
  - ☑ *Site address*
- ☑ Executive Summary / Introduction of the report
- ☑ Table of contents
- ☑ Project Location Map / Vicinity Map
- ☑ **Site / Exploration Plans, Boring Location Plans**
- ☐ Cross-sections / Subsurface profiles
- ☑ **Exploration Logs**
- ☐ Monitoring Well Logs
- ☐ Cone Penetrometer Logs
- ☐ Groundwater Elevation Tables / Data

☐ Includes data from Previous Reports

☐ No new data / data review

☐ Missing Data / Illegible Data
Explanation _____

Comments: _____

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CASCADE GEOTECHNICAL INC.
12911 N.E. 126TH PLACE
KIRKLAND, WASHINGTON 98034
(206) 821-5080
FAX: (206) 820-6953

September 18, 1991
Job No. 9107-11G

PRA/Steinke Development
221 3rd Ave. South, #8
Edmonds, WA 98020

Attention: Patrick Arnim/Mel Steinke

Reference: Arnim-Steinke Preliminary Plat
56th Avenue West & 160th St. S.W.
Snohomish County, Washington

Dear Mr. Arnim/Steinke:

At your request, we have completed a preliminary subsurface soils investigation at the above site. This report summarizes our field observations and provides our preliminary conclusions and recommendations.

SCOPE

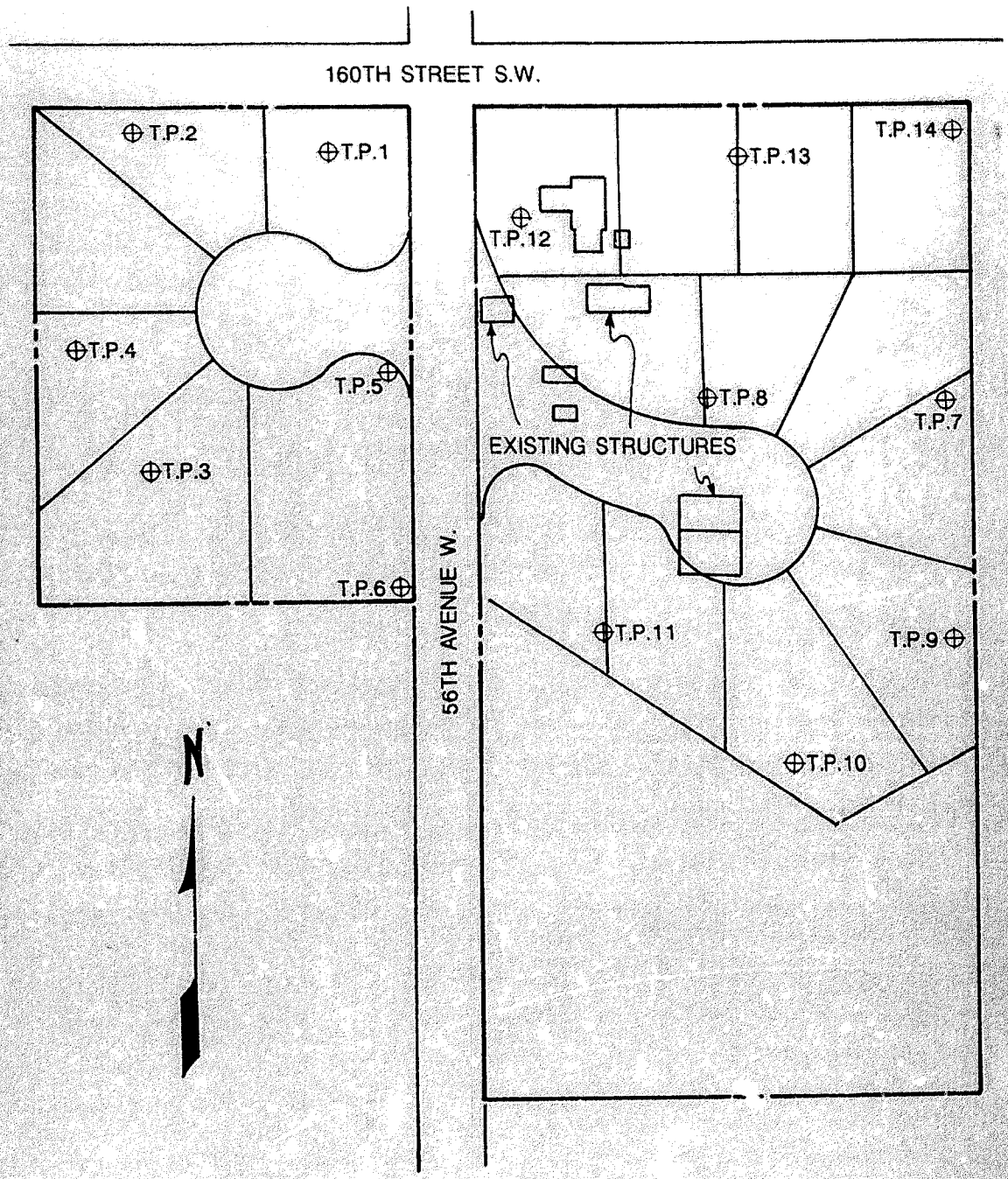
The scope of our study was to investigate the subsurface soil and ground water conditions of the site with backhoe test pits, review the information in our files and library, and prepare a geotechnical report. This report addresses subsurface soil and ground water conditions, and provides preliminary recommendations for soil bearing value, road construction, foundation design parameters, minimum setbacks, slope stability, erosion control, drainage, grading and site preparation. We addressed only the geotechnical aspects of the site and did not perform any type of environmental review.

PROJECT DESCRIPTION

At the time of our visit, we were provided with an undated

ARNIM - STEINKE PRELIMINARY PLAT

TEST PIT LOCATION MAP

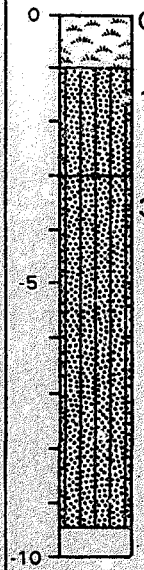


FROM PRELIMINARY PLAT BY LOVELL-SAUERLAND & ASSOCIATES, INC.

CASCADE GEOTECHNICAL, INC.
12919 N.E. 126TH PLACE
KIRKLAND, WASHINGTON 98034
(206) 821-5080
FAX: (206) 823-2203

Job No. 9107-11G	SCALE : 1" = 100'	
LOCATIONS ARE APPROXIMATE		
Date 07/23/91	Dwn. By HLA	Eng - Geol

T.P. 1	Soil Description & Classification



0 - 1' TOPSOIL: silty sand with trace gravel, some roots, trace carcoal, dark brown, loose, damp.

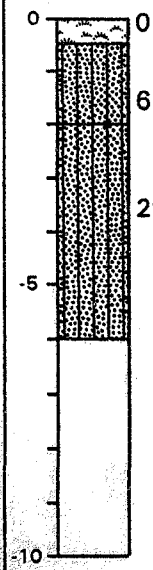
1'- 3' SILTY SAND: with some gravel, trace cobbles, trace roots, tan to light brown, medium dense, damp, slightly mottled. (SM)

3'- 9.5' SILTY SAND: with some gravel, trace cobbles, light gray to gray, dense to very dense, becomes very dense @5', moist. (SM) (till)

T.D. = 9.5'

Notes: No seeage or caving observed in the test pit.

[redacted]	Soil Description & Classification



0 - 6" TOPSOIL: organic silty sand with minor gravel, brown to black to brown, loose, damp.

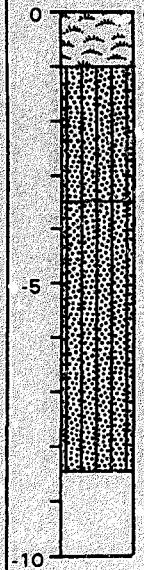
6"- 2' SILTY SAND: with some gravel, trace cobbles, trace roots, tan to light brown, medium dense, damp, slightly mottled. (SM)

2'- 6' SILTY SAND: with some gravel, trace cobbles, light gray to gray, dense to very dense, becomes very dense @ 3.5 to 4', moist. (SM) (till)

T.D. = 6'

Notes: No seepage or caving observed.

T.P. 3	Soil Description & Classification



0 - 1' TOPSOIL: silty sand with trace gravel, some roots, trace charcoal, dark brown, loose damp.

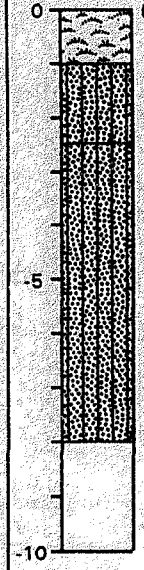
1'- 3.5' SILTY SAND: with some gravel, trace cobbles, some roots, tan to light brown, loose to medium dense, dry to damp. (SM)

3.5'- 8.5' SILTY SAND: with some gravel, trace cobbles, light gray to gray, dense to very dense, becomes very dense between 5' to 5.5', moist. (SM)

T.D. = 8.5'

Notes: No caving or seepage observed.

T[redacted]	Soil Description & Classification



0 - 1' FOREST DUFF/TOPSOIL: silty sand with trace gravel, some roots, trace charcoal, dark brown, loose, damp.

1'- 2.5' SILTY SAND: with some gravel, trace cobbles, trace roots, tan to light brown, medium dense, damp, slightly mottled. (SM)

2.5'- 8' SILTY SAND: with some gravel, trace cobbles, light gray to gray, dense to very dense, becomes very dense @ 4', moist. (SM) (till)

T.D. = 8'

Notes: No caving or seepage observed.

CASCADE GEOTECHNICAL, INC.

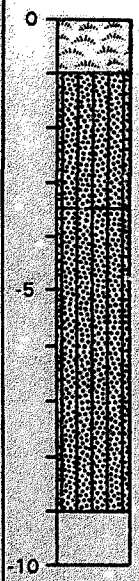
TEST PIT LOG

Project *ARNIM-STEINKE PRELIMINARY PLAT*

Conditions shown represent our observations at the time and location of the field work, modifications based on lab tests, analysis, and geological and engineering judgement. These conditions may not exist at other times and locations, even in close proximity. This information was gathered as part of our investigation, and we are not responsible for any use or interpretation of the information by others.

Date 07/23/91	Job No. 9107-11G	Dwn. By BK	Geo/Eng AK

Soil Description & Classification



0 - 1' TOPSOIL: organic silty sand with minor gravel, brown to black to brown, loose, damp.

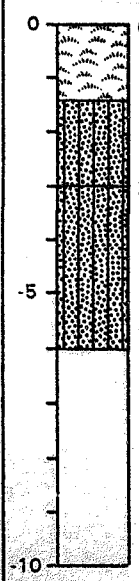
1'- 3.5' SILTY SAND: with some gravel, trace cobbles, trace roots, tan to light brown, medium dense, damp, slightly mottled. (SM)

3.5'- 9' SILTY SAND: with some gravel, trace cobbles, light gray to gray, dense to very dense, becomes very dense @ 5', moist. (SM) (till)

T.D. = 9'

Notes: No seepage or caving observed.

Soil Description & Classification



0 - 1.5' FOREST DUFF/TOPSOIL: silty sand with trace gravel, some roots, trace charcoal, dark brown, loose damp.

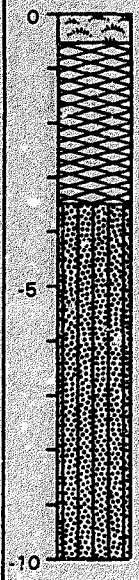
1.5'- 3' SILTY SAND: with some gravel, trace cobbles, trace roots, tan to light brown, medium dense, damp. (SM)

3'- 7' SILTY SAND: with some gravel, trace cobbles, light gray to gray, dense to very dense, becomes very dense @ 4.5', moist. (SM) (till)

T.D. = 7'

Notes: No seepage or caving observed.

Soil Description & Classification



0 - 6" TOPSOIL: organic silty sand with minor gravel, brown to black to brown, loose, damp.

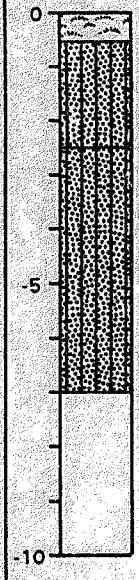
6"-3.5' UNCONTROLLED FILL: silty sand with minor to some gravel, some wood fragments, trace glass pieces, brown, loose, moist.

3.5'-10' SILTY SAND: with some gravel, trace, cobbles, tan to gray, medium dense to very dense, becomes very dense @ 7.5', upper 2' to 3' is mottled, moist. (SM) (till)

T.D. = 10'

Notes: No seepage or caving observed.

Soil Description & Classification



0 - 6" TOPSOIL: silty sand with trace gravel, some roots, trace charcoal, dark brown, loose, damp.

6"-2.5' SILTY SAND: with some gravel, trace cobbles, trace roots, tan to light brown, medium dense, damp, slightly mottled. (SM)

2.5'- 7' SILTY SAND: with some gravel, trace cobbles, tan to gray, medium dense to very dense, becomes very dense @ 5', upper 1' is mottled, moist. (SM) (till)

T.D. = 7'

Notes: No seepage or caving observed.

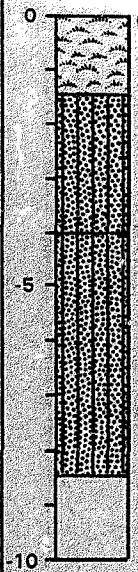
CASCADE GEOTECHNICAL, INC.

TEST PIT LOG

Project *ARNIM-STEINKE PRELIMINARY PLAT*

Date 07/23/91	Job No. 9107-11G	Dwn. By BK	Geo/Eng AK

[redacted] | Soil Description & Classification



0 - 1.5' FOREST DUFF/TOPSOIL: silty sand with trace gravel, some roots, trace charcoal, dark brown, loose, damp.

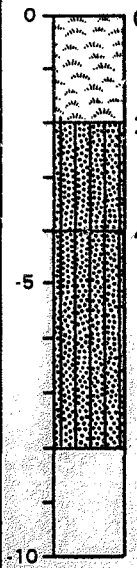
1.5'- 4' SILTY SAND: with some gravel, trace cobbles, some roots, tan to light brown, loose to medium dense, dry to damp. (SM)

4'- 8.5' SILTY SAND: with some gravel, trace cobbles, light gray to gray, dense to very dense, becomes very dense @ 5.5', moist. (SM) (till)

T.D. = 8.5'

Notes: No seepage or caving observed.

[redacted] | Soil Description & Classification



0 - 2' FOREST DUFF/TOPSOIL: silty sand with trace gracel, some roots, trace charcoal, dark brown, loose, damp.

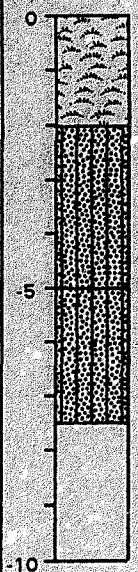
2'- 4' SILTY SAND: with some gravel, trace cobbles, trace roots, tan to light brown, loose to medium dense, damp, slightly mottled. (SM)

4'- 8' SILTY SAND: with some gravel, trace cobbles, light gray to gray, dense to very dense, becomes very dense at 6.5', moist. (SM) (till)

T.D. = 8'

Notes: No seepage or caving observed.

[redacted] | Soil Description & Classification



0 - 2' FOREST DUFF/TOPSOIL: silty sand with trace gravel, some roots, trace charcoal, dark brown, loose, damp.

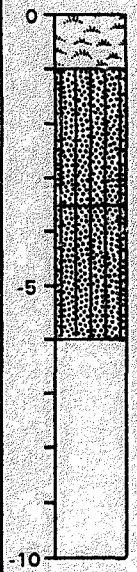
2'- 5' SILTY SAND: with some gravel, trace cobbles, trace roots, tan to light brown, medium dense, damp, slightly mottled. (SM).

5'- 7.5' SILTY SAND: with some gravel, trace cobbles, light gray to gray, dense to very dense, becomes very dense at 6', moist. (SM) (till)

T.D. = 7.5'

Notes: No seepage or caving observed.

[redacted] | Soil Description & Classification



0 - 1' TOPSOIL: silty sand with trace gravel, some roots, trace charcoal, dark brown, loose, damp.

1'- 3.5' SILTY SAND: with some gravel, trace cobbles, upper 1' rich in roots, tan to light brown, loose to medium dense, damp, slightly mottled. (SM)

3.5'- 6' SILTY SAND: with some gravel, trace cobbles, light gray to gray, dense to very dense, becomes very dense at 4.5', moist. (SM) (till)

T.D. = 6'

Notes: No seepage or caving observed.

CASCADE GEOTECHNICAL, INC.

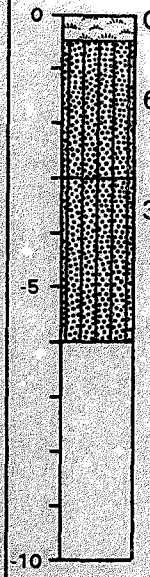
TEST PIT LOG

Project *ARNIM-STEINKE PRELIMINARY PLAT*

Conditions shown represent our observations at the time and location of the field work, modifications based on lab tests, analysis, and geological and engineering judgement. These conditions may not exist at other times and locations, even in close proximity. This information was gathered as part of our investigation, and we are not responsible for any use or interpretation of the information by others.

Date 07/23/91	Job No. 9107-11G	Dwn. By BK	Geo/Eng AK

T.P. 13	Soil Description & Classification



0 - 6" TOPSOIL; silty sand with trace gravel, some roots, trace charcoal, dark brown, loose, damp.

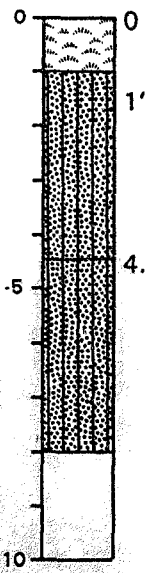
6"- 3' SILTY SAND; with some gravel, trace cobbles, trace roots, tan to light brown, medium dense, damp, slightly mottled. (SM)

3'- 6' SILTY SAND; with some gravel, trace cobbles, light gray to gray, dense to very dense, becomes very desne @ 4' to 4.5', moist. (SM) (till)

T.D. = 6'

Notes: No seepage or caving observed.

[illegible]	Soil Description & Classification



0 - 1' TOPSOIL; silty sand with trace gravel, some roots, trace charcoal, dark brown, loose, damp.

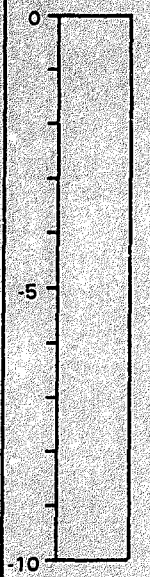
1'- 4.5' SILTY SAND; with some gravel, trace cobbles, trace roots, tan to light brown, medium dense, damp, slightly mottled. (SM)

4.5'- 8' SILTY SAND; with some gravel, trace cobbles, light gray to gray, dense to very dense, moist. (SM) (till)

T.D. = 8'

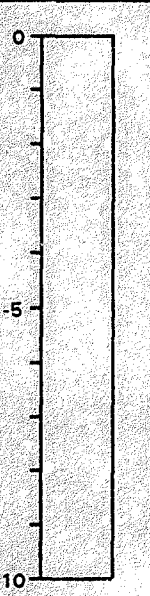
Notes: No seepage or caving observed.

T.P.	Soil Description & Classification



Notes:

T.P.	Soil Description & Classification



Notes:

CASCADE GEOTECHNICAL, INC.

TEST PIT LOG

Project *ARNIM-STEINKE PRELIMINARY PLAT*

Date 07/23/91	Job No. 9107-11G	Dwn. By BK	Geo/Eng AK